

Title (en)

AIR DATA PROBE WITH ENHANCED CONDUCTION INTEGRATED HEATER BORE

Title (de)

LUFTDATENSONDE MIT INTEGRIERTER HEIZBOHRUNG MIT VERBESSERTER WÄRMELEITUNG

Title (fr)

SONDE DE DONNÉES D'AIR AVEC ALÉSAGE DE CHAUFFAGE INTÉGRÉ À CONDUCTION AMÉLIORÉE

Publication

EP 4160221 A1 20230405 (EN)

Application

EP 22197719 A 20220926

Priority

US 202117492325 A 20211001

Abstract (en)

A probe head (12) of an air data probe includes a body (22) extending from a first end (18) to a second end (20) of the probe head (12) and a rod heater (224). The body (22) includes an inlet (28A) adjacent the first end (18) of the probe head, an air passageway (30A) extending through the body (22) from the inlet (28A) to a second end of the probe head, a water dam (32A) extending radially through the body such that the air passageway (30A) is redirected around the water dam, a heater bore (34) extending within the body, and an enhanced conduction area (238A) between heater bore (34) and an exterior surface (26) of the probe head. The inlet (28A), the air passageway (30A), the water dam (32A), and the heater bore (34) are all unitary to the body. The rod heater (224) is positioned within the heater bore (34).

IPC 8 full level

G01P 5/165 (2006.01); **B64D 15/12** (2006.01); **B64D 43/02** (2006.01); **F28D 21/00** (2006.01); **G01F 1/46** (2006.01)

CPC (source: EP US)

B64D 15/12 (2013.01 - EP); **B64D 43/02** (2013.01 - EP); **G01F 1/42** (2013.01 - US); **G01F 1/46** (2013.01 - US); **G01F 1/688** (2013.01 - US);
G01P 5/165 (2013.01 - EP)

Citation (search report)

- [Y] US 2397084 A 19460326 - JACOB BERNHARDT
- [Y] US 2020233007 A1 20200723 - JACOB ROBIN [IN], et al
- [A] CN 210037862 U 20200207 - SHENZHEN ZHONGJU CENTURY UAV CO LTD
- [A] CN 109625290 A 20190416 - TAIYUAN AERO INSTR CO LTD

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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US 2023107330 A1 20230406

DOCDB simple family (application)

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